

## ECS Configuration Change Request

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Page(s)

<b>1. Originator</b> Kenneth L. Cockerill	<b>2. Log Date:</b> 12/13/01	<b>3. CCR #:</b> 01-0956	<b>4. Rev:</b> —	<b>5. Tel:</b> 301-925-0463	<b>6. Rm #:</b> 3041	<b>7. Dept.</b> DEV/SWIT
<b>8. CCR Title:</b> TE_6A.04_TUNNELING.01 for GSFC DAAC only						
<b>9. Originator Signature/Date</b> Kenneth L. Cockerill /s/ 12/13/01			<b>10. Class</b> II	<b>11. Type:</b> CCR	<b>12. Need Date:</b> 14DEC01	
<b>13. Office Manager Signature/Date</b> Arthur Cohen /s/ 12/13/01			<b>14. Category of Change:</b> Initial ECS Baseline Doc.		<b>15. Priority:</b> (If "Emergency" fill in Block 27). Emergency	
<b>16. Documentation/Drawings Impacted:</b>			<b>17. Schedule Impact:</b>		<b>18. Cl(s) Affected:</b> INGEST/STMGT	
<b>19. Release Affected by this Change:</b> 6A		<b>20. Date due to Customer:</b> 14DEC01		<b>21. Estimated Cost:</b> None - Under 100K		
<b>22. Source Reference:</b> <input checked="" type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input type="checkbox"/> Other: 30935, 30621, 30034						
<b>23. Problem: (use additional Sheets if necessary)</b> The following are the NCRs that document the changes needed to support tunneling within Ingest and Stmgt: 30935 - Modify Stmgt FTP code to use optional port setting (STMGT NCR) 30621 - FTP Class does not accept port number (MSS NCR) 30034 - FTP Class does not accept port number (INGEST NCR)						
<b>24. Proposed Solution: (use additional sheets if necessary)</b> Deliver TE_6A.04_TUNNELING.01 for GSFC DAAC only. This TE supersedes INGEST.03 and the STMGT portion of DSS.03.						
<b>25. Alternate Solution: (use additional sheets if necessary)</b> Wait until next s/w release.						
<b>26. Consequences if Change(s) are not approved: (use additional sheets if necessary)</b> Delays in getting fixes to the field, GSFC DAAC must continue to work around problems						
<b>27. Justification for Emergency (If Block 15 is "Emergency"):</b> Corrections are required at GSFC DAAC to continue operational testing of 6A04.						
<b>28. Site(s) Affected:</b> <input type="checkbox"/> EDF <input checked="" type="checkbox"/> PVC <input checked="" type="checkbox"/> VATC <input type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
<b>29. Board Comments:</b>			<b>30. Work Assigned To:</b>		<b>31. CCR Closed Date:</b>	
<b>32. EDF/SCDV CCB Chair (Sign/Date):</b> Randall J. Miller /s/ 12/13/01		<b>Disposition:</b> <span style="border: 1px solid black; padding: 2px;">Approved</span> App/Com. Disapproved Withdraw Fwd/ESDIS ERB				
<b>33. M&amp;O CCB Chair (Sign/Date):</b> Lonney Head /s/ 12/13/2001		<b>Disposition:</b> <span style="border: 1px solid black; padding: 2px;">Approved</span> App/Com. Disapproved Withdraw Fwd/ESDIS Fwd/ECS				
<b>34. ECS CCB Chair (Sign/Date):</b>		<b>Disposition:</b> Approved App/Com. Disapproved Withdraw Fwd/ESDIS Fwd/ESDIS				

# ADDITIONAL SHEET

**CCR #:**                      **Rev:**                      **Originator:** Kenneth L. Cockerill

**Telephone:** 301-925-0463                      **Office:** 3041

**Title of Change:** TE\_6A.04\_TUNNELING.01 for GSFC DAAC only

## Actions

ClearCase please build SGI Tar file from the 6A04NOFW baseline for the following packages:

.EcInINTFCSVR.pkg  
.EcInAPCSVR.pkg  
.EcDsStArchive.pkg  
.EcDsStIngestFtp.pkg  
.EcDsStPullMonitor.pkg

Also build a SUN Tar file from the 6A04NOFW baseline for the following package:

.EcInGUIOPSWs.pkg

Please name the Tar files TE\_6A.04\_TUNNELING.01

## DAAC INSTALL INSTRUCTIONS

1. Get TAR File from SMC distribution.

List of packages:

SGI:

.EcInINTFCSVR.pkg  
.EcInAPCSVR.pkg  
.EcDsStArchive.pkg  
.EcDsStIngestFtp.pkg  
.EcDsStPullMonitor.pkg

Sun:

.EcInGUIOPSWs.pkg

2. UNTAR the file and ensure that you update ECS Assist when prompted. Please remember that you must be logged in as "root" when you update ECS Assist. Note: You must update ECS Assist to implement configuration changes for Ingest.

3. Use E.A.S.I. to perform an automated installation of all six packages listed in step 1. The following packages are to be installed:

.EcInINTFCSVR.pkg  
.EcInAPCSVR.pkg  
.EcDsStArchive.pkg  
.EcDsStIngestFtp.pkg  
.EcDsStPullMonitor.pkg  
.EcInGUIOPSWs.pkg

For information on how to use E.A.S.I. please refer to the 609 CDRL.

4. There are no new database patches that support the tunneling capability.

5. There are new parameters for Ingest and STMGIT to support the tunneling capability. The new parameter FTP\_TUNNELS must be added to the EcInReqMgr, EcInGUI, Ingest polling servers, EcDsStFtpServer (each instance),

EcDsStCacheManagerServer (each instance) and EcDsStPullMonitorServer. Also a new parameter called PortNumber is added to each instance of polling.

6. Remake your configuration files (Configuration) for each Ingest server on both the g0icg01 and g0acg01 machines using ECS Assist. (ECS Assist automatically builds each Ingest configuration file.) As you go through each Polling provider's configuration make sure that EMPTY appears as the PortNumber value. However you should add the appropriate port number for the particular data provider that will transfer its PDRs through the FTP tunnel. For the polling provider that will use the tunnel, set the polling configuration parameter HostName to the local host and set the PortNumber to the local port when configuring polling servers to poll across an FTP tunnel.

The FTP\_TUNNELS parameter consists of a host and port number separated by a colon. The host will always be the destination host of the established tunnel. This name will be the user LAN Hostname such as g0acg01.ecs.nasa.gov. The port number portion of the FTP\_TUNNELS parameter will be the local port number that represents the source of the tunnel.

The FTP\_TUNNELS parameter that is part of the Ingest Request Manager server should be set to the appropriate host/port for which a tunnel has been established. If the FTP\_TUNNELS hostname matches the host name entered in the Ingest GUI for the Notify FTP Node then PANs will be sent across the tunnel for that provider.

The FTP\_TUNNELS parameter that is part of the Ingest Polling Server primary parameters should be set to the appropriate host/port for which a tunnel has been established. If the FTP\_TUNNELS hostname matches the host name entered in the Ingest GUI for the Notify FTP Node then PDRDs will be sent across the tunnel for that provider.

7. Perform a registry patch on the machine that runs the Ingest GUI. The .rgypatch will add the parameter for FTP\_TUNNELS that is used for FTP'ing PDRDs for media ingest. For now the default value of "EMPTY" can be used.

8. Since the Ingest configuration polling files needed to be rebuilt, you must use EcCoPopulateRegistry tool to update the registry for each polling instance configuration file that was rebuilt. The registry tool has the following syntax:

Usage: EcCoPopulateRegistry MODE {HostName|ALL} {ConfigFileName|ALL} DbServerName DbUserName DbPassword DbName AttributeTreeName [Buffersize]

9. The EcDsStFtpServer, EcDsStCacheManagerServer and the EcDsStPullMonitor servers also require the FTP\_TUNNELS parameter. Use the .rgypatch to populate the registry for these servers. Use the registry GUI to configure the FTP\_TUNNELS parameter for the ICL Ftp Server. This server controls the FTP requests supporting Ingest. This parameter must be set to the <host:portNumber> where the host is the remote host destination of the tunnel to the appropriate dataprovider configured in step 5 above with the appropriate port number. Currently the other FTP servers, cache managers and pull monitor server can be run with the default value provided by the registry patch.

10. Ensure that the EcDsStFtpServer (each instance), EcDsStCacheManagerServer (each instance), EcDsStPullMonitorServer, EcInReqMgr, EcInPolling servers and the EcInGUI is restarted following the installation and configuration.